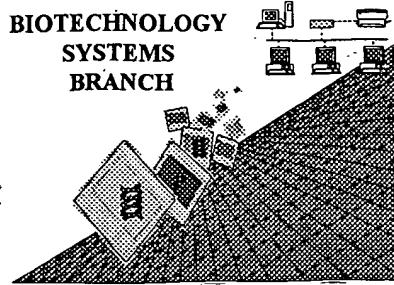


0400

BEST AVAILABLE COPY

RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/015,989
Source: O/PE
Date Processed by STIC: 1/3/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
 - 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
- FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom, including:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE)
2. U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name,
Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two,
2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office,
Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: <u>10/015,989</u>
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
1 <input checked="" type="checkbox"/> Wrapped Nucleic Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 <input type="checkbox"/> Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 <input type="checkbox"/> Misaligned Amino Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.	
4 <input checked="" type="checkbox"/> Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5 <input type="checkbox"/> Variable Length	Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 <input type="checkbox"/> PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
7 <input type="checkbox"/> Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped	
	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8 <input type="checkbox"/> Skipped Sequences (NEW RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000	
9 <input type="checkbox"/> Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa; and which residue n or Xaa represents.	
10 <input type="checkbox"/> Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence	
11 <input type="checkbox"/> Use of <220>	Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	
12 <input type="checkbox"/> PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 <input type="checkbox"/> Misuse of n!	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.	

OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/015,989

DATE: 01/03/2002
TIME: 15:41:56

Input Set : A:\ES.txt
Output Set: N:\CRF3\01032002\J015989.raw

7 <110> APPLICANT: DARROW, ANDREW
10 QI, JENSON
13 ANDRADE-GORDON, PATRICIA
19 <120> TITLE OF INVENTION: ZYMOGEN ACTIVATION SYSTEM
25 <130> FILE REFERENCE: ORT-1552
31 <140> CURRENT APPLICATION NUMBER: US/10/015,989
34 <141> CURRENT FILING DATE: 2001-12-10
40 <160> NUMBER OF SEQ ID NOS: 60
46 <170> SOFTWARE: PATENTIN VER. 2.0

*See item 4 on
Error Summary
Sheet*

*Does Not Comply w/1-12
Corrected Diskette Needed*

ERRORED SEQUENCES

52 <210> SEQ ID NO: 1
55 <211> LENGTH: 361
58 <212> TYPE: DNA
61 <213> ORGANISM: ARTIFICIAL SEQUENCE
67 <220> FEATURE:
70 <223> OTHER INFORMATION: DESCRIPTION OF ARTIFICIAL SEQUENCE: FUSION GENE
73 VECTORS.
79 <400> SEQUENCE: 1
E--> 82 gaattcacca ccatggacag caaaggttcg tcgcagaaat cccgcctgct 60
83 cctgtctgtc 60
E--> 86 gtgtgtcaa atctacttctt gtgccagggt gtggctccg actacaagg 120
87 cgacgacgac 120
E--> 90 gtggacgcgg ccgccttcgc tgccccctt gatgatgatg acaagatcgt 180
91 tggggctat 180
E--> 94 gctctagata gcggccgctt cccttagtg agggtaatg ctgcagcag 240
95 acatgataaag 240
E--> 98 atacattgtat gagtttggac aaaccacaac tagaatgcag tgaaaaaaat 300
99 gctttatgg 300
E--> 102 tgaatattgtat gatgttatttgc ttatattgtt aaccattata agctgcaata 360
103 aacaagtta 360
106 c
112 <210> SEQ ID NO: 2
115 <211> LENGTH: 301
118 <212> TYPE: DNA
121 <213> ORGANISM: ARTIFICIAL SEQUENCE
127 <220> FEATURE:
130 <223> OTHER INFORMATION: DESCRIPTION OF ARTIFICIAL SEQUENCE: FUSION GENE
133 VECTORS.
139 <400> SEQUENCE: 2
E--> 142 gaattcacca tgaatccact cctgatcctt acctttgtgg cggccgctct 60
143 tgctgcccc 60
E--> 146 tttgtatgatg atgacaagat cgttggggc tattgtctag ataccctac 120
147 gatgtgccc 120
E--> 150 attacgccta gcggccgctt cccttagtg agggtaatg ctgcagcag

FYI: nucleotides must be in lower-case letters, when Sequence Listing is in new sequence rules format

60 ← format (see item 1 on Error summary sheet)
120 ← error (item 1 on Error summary sheet)

361

same format error

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/015,989

DATE: 01/03/2002
TIME: 15:41:56

Input Set : A:\ES.txt
Output Set: N:\CRF3\01032002\J015989.raw

151 acatgataag 180
E--> 154 atacattgt gagtttggac aaaccacaac tagaatgcag tgaaaaaaaaat
155 gccttatttg 240
E--> 158 tggaaatttgt gatgttattt ctttatttgt aaccattata agctgcaata
159 aacaagtta 300
162 c
168 <210> SEQ ID NO: 3
171 <211> LENGTH: 484
174 <212> TYPE: DNA
177 <213> ORGANISM: ARTIFICIAL SEQUENCE
183 <220> FEATURE:
186 <223> OTHER INFORMATION: DESCRIPTION OF ARTIFICIAL SEQUENCE: FUSION GENE
189 VECTORS.
195 <400> SEQUENCE: 3
E--> 198 gaatttcacca ccatggacag caaagggtcg tcgcagaaat cccgcctgt
199 cctgctgtc 60
E--> 202 gtgggtgtcaa atctacttgc ttgtccagggt gtgggtctccg actacaaggaa
203 cgacgacgac 120
E--> 206 gtggacgcgg ccgcctttgc tgcccccttt atcgaggggc gcattgtgga
207 gggctcgat 180
E--> 210 cttagataccctt acatgtgtg cccgattacg ccgttagata cccctacgt
211 gtggcccgatt 240
E--> 214 acggccgttag ataccactac gatgtgcccc attacgcgc tagataccccc
215 tacgtatgtc 300
E--> 218 ccgattacgc cttagccggc cttcccttta gtgagggtta atgcttcgag
219 cagacatgt 360
E--> 222 aagatacattt gatgagtttgc gacaaaccac aactagaatg cagtggaaaa
223 aatgttttat 420
E--> 226 ttgtgaaattt tgtgtatgtca ttgttttattt tgtaaccattt ataagctgca
227 ataaaacaagt 480
230 tgac
236 <210> SEQ ID NO: 4
239 <211> LENGTH: 382
242 <212> TYPE: DNA
245 <213> ORGANISM: ARTIFICIAL SEQUENCE
251 <220> FEATURE:
254 <223> OTHER INFORMATION: DESCRIPTION OF ARTIFICIAL SEQUENCE: FUSION GENE
257 VECTORS.
263 <400> SEQUENCE: 4
E--> 266 gaatttcacca ccatggacag caaagggtcg tcgcagaaat cccgcctgt
267 cctgctgtc 60
E--> 270 gtgggtgtcaa atctacttgc ttgtccagggt gtgggtctccg actacaaggaa
271 cgacgacgac 120
E--> 274 gtggacgcgg ccgcctttgc tgccccctttt gatgtatgtg acaagatcg
275 tgggggtac 180
E--> 278 aactgtcttag acatcaccat caccatcaat agcggccgt tcccttttagt
279 gagggtaat 240
E--> 282 gtttcgagca gacatgataa gatacattga tgagtttggaa caaaccacaa
283 cttagatgca 300

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/015,989

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Input Set : A:\ES.txt
Output Set: N:\CRF3\01032002\J015989.raw

E--> 286 gtgaaaaaaaa tgctttatggtaaaaaatttgcgtatgttattttg
287 taaccattat 360
290 aagctgcaat aaacaagttg ac
296 <210> SEQ ID NO: 5
299 <211> LENGTH: 352
302 <212> TYPE: DNA
305 <213> ORGANISM: ARTIFICIAL SEQUENCE
311 <220> FEATURE:
314 <223> OTHER INFORMATION: DESCRIPTION OF ARTIFICIAL SEQUENCE: FUSION GENE
317 VECTORS.
323 <400> SEQUENCE: 5
E--> 326 gaattcacca ccatggcttt cctctggctc ctctcctgct gggccctcct
327 gggtaaccacc 60
E--> 330 ttcggctgcg gggccccga ctacaaggac gacgacgacg cggccgctct
331 tgctgcccc 120
E--> 334 ttgtatgtatg atgacaagat cgttgggggc tatgctctag acatcaccat
335 caccatcact 180
E--> 338 agcgccgcgt tcccttagt gagggtaat gcttcgagca gacatgataa
339 gatacattga 240
E--> 342 tgagtttggaa caaaccacaa ctagaatgca gtgaaaaaaaa tgctttatgg
343 gtgaaaatttgc 300
E--> 346 tgatgttatttgcgtatgttattttgtaaccattat aagctgcaat aaacaagttg
347 ac 352
353 <210> SEQ ID NO: 6
356 <211> LENGTH: 385
359 <212> TYPE: DNA
362 <213> ORGANISM: ARTIFICIAL SEQUENCE
368 <220> FEATURE:
371 <223> OTHER INFORMATION: DESCRIPTION OF ARTIFICIAL SEQUENCE: FUSION GENE
374 VECTORS.
380 <400> SEQUENCE: 6
E--> 383 gaattcacca ccatggcttt cctctggctc ctctcctgct gggccctcct
384 gggtaaccacc 60
E--> 387 ttcggctgcg gggccccga ctacaaggac gacgacgacg cggccgctct
388 tgctgcccc 120
E--> 391 ttgtatgtatg atgacaagat cgttgggggc tatgctctag ataccctac
392 gatgtgcccc 180
E--> 395 attacgcccgc tagacatcac catcaccatc actagcgcc gcttccctt
396 agtgagggtt 240
E--> 399 aatgcttcgaa gcagacatgaa taagatacat tgatgagttt ggacaaacca
400 caactagaat 300
E--> 403 gcagtggaaaaaa aatgcttta ttgtgaaat ttgtgatgct attgctttat
404 ttgttaaccat 360
407 tataagctgc aataaacaag ttgac
413 <210> SEQ ID NO: 7
416 <211> LENGTH: 1169
419 <212> TYPE: DNA
422 <213> ORGANISM: ARTIFICIAL SEQUENCE
428 <220> FEATURE:

382

385

RAW SEQUENCE LISTING
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Input Set : A:\ES.txt
Output Set: N:\CRF3\01032002\J015989.raw

431 <223> OTHER INFORMATION: DESCRIPTION OF ARTIFICIAL SEQUENCE: FUSION GENE
 434 WITH HOMO SAPIEN SERINE PROTEASE CATALYTIC DOMAIN
 440 <400> SEQUENCE: 7
 E--> 443 gaattcacca ccatggacag caaaggttcg tcgcagaaaat cccgcctgct
 444 cctgctgctg 60
 E--> 447 gtgggtgtcaa atctactctt gtgccagggt gtggtctccg actacaagga
 448 cgacgacgac 120
 E--> 451 gtggacgcgg ccgcttgc tgccccctt gatgatgatg acaagatcgt
 452 tgggggctat 180
 E--> 455 gctctagagg cccgtcagtg gccctggcag gtcagcatca cctatgaagg
 456 cgtccatgtg 240
 E--> 459 tgggtggct ctctcgtgtc tgagcagtgg gtgctgtcag ctgctcactg
 460 cttccccagc 300
 E--> 463 gagcaccaca aggaagccta tgaggtaaag ctggggccc accagctaga
 464 ctcctactcc 360
 E--> 467 gaggacgcca aggtcagcac cctgaaggac atcatcccc accccagcta
 468 cctccaggag 420
 E--> 471 ggctcccagg gcgacattgc actcctccaa ctcagcagac ccatacacctt
 472 ctcccgtac 480
 E--> 475 atccggccca tctgcctccc tgcagccaaac gcctccttcc ccaacggcct
 476 ccactgcact 540
 E--> 479 gtcactggct ggggtcatgt ggccccctca gtgagcctcc tgacgccaa
 480 gccactgcag 600
 E--> 483 caactcgagg tgcctctgat cagtcgtgag acgtgtaact gcctgtacaa
 484 catcgacgcc 660
 E--> 487 aaggcctgagg agccgcactt tgtccaagag gacatgggt gtgctggta
 488 tgtggagggg 720
 E--> 491 ggcaaggacg cctgccagg tgactctggg ggcccaactct cctgcccgt
 492 ggagggtctc 780
 E--> 495 tggtaacctga cggcattgt gagctggga gatgcctgtg gggcccgc当地
 496 caggccttgt 840
 E--> 499 gtttacactc tggcctccag ctatgcctcc tggatccaaa gcaagggtgac
 500 agaactccag 900
 E--> 503 ctcgtgtgg tgcccaaac ccaggagtcc cagccgcaca gcaacctctg
 504 tggcagccac 960
 E--> 507 ctggccttca gctctagaca tcaccatcac catcaactagc ggccgcttcc
 508 ctttagtgag 1020
 E--> 511 ggttaatgct tcgagcagac atgataagat acattgatga gtttggacaa
 512 accacaacta 1080
 E--> 515 gaatgcagtg aaaaaatgc ttatattgt aaatttgtga tgctattgct
 516 ttatattgtaa 1140
 519 ccattataag ctgcaataaa caagttgac
 525 <210> SEQ ID NO: 8
 528 <211> LENGTH: 1142
 531 <212> TYPE: DNA
 534 <213> ORGANISM: ARTIFICIAL SEQUENCE
 540 <220> FEATURE:
 543 <223> OTHER INFORMATION: DESCRIPTION OF ARTIFICIAL SEQUENCE: FUSION GENE
 546 WITH HOMO SAPIEN SERINE PROTEASE CATALYTIC DOMAIN

1169

RAW SEQUENCE LISTING
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DATE: 01/03/2002
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Input Set : A:\ES.txt
Output Set: N:\CRF3\01032002\J015989.raw

552 <400> SEQUENCE: 8
E--> 555 gaattcacca ccatggcttt cctctggctc ctctccctgct gggccctcct
556 gggtaccacc 60
E--> 559 ttcggctcg cggtccccga ctacaaggac gacgacgacg cggccgcct
560 tgctgcccc 120
E--> 563 ttgtatgatg atgacaagat cgttggggc tatgtcttag aggccggtca
564 gtggccctgg 180
E--> 567 caggtcagca tcacccatga aggcgccat gtgtgtggtg gctctctcgt
568 gtctgagcag 240
E--> 571 tgggtgctgt cagctgctca ctgctccccc agcgagcacc acaaggaagc
572 ctatgaggtc 300
E--> 575 aagctggggg cccaccagct agactcctac tccgaggacg ccaaggtcag
576 caccctgaag 360
E--> 579 gacatcatcc cccacccag ctacccatccag gaggctccc agggcgacat
580 tgcactccctc 420
E--> 583 caactcagca gacccatcac cttctcccg ccatccggc ccatctgcct
584 ccctgcagcc 480
E--> 587 aacgcctcct tcccaaacgg cttccactgc actgtcaactg gctggggtca
588 tgtggcccc 540
E--> 591 tcagtgagcc tcctgacgcc caagccactg cagcaactcg aggtgcctct
592 gatcagtgcgt 600
E--> 595 gagacgtgta actgcctgta caacatcgac gccaaaggctg aggagccgca
596 ctttgtccaa 660
E--> 599 gaggacatgg tgtgtgctgg ctatgtggag gggggcaagg acgcctgcca
600 ggtgactct 720
E--> 603 gggggccac tctccccc tttggagggt ctctggtacc tgacgggcat
604 tgtgagctgg 780
E--> 607 ggagatgcct gtggggcccg caacaggcct ggtgtgtaca ctctggccctc
608 cagctatgccc 840
E--> 611 tcctggatcc aaagcaaggt gacagaactc cagccctcg tgggccccca
612 aacccaggag 900
E--> 615 tcccagcccg acagcaaccc ctgtggcagc cacctggcct tcagctctag
616 acatcaccat 960
E--> 619 caccatcaact agcggccgt tcccttttagt gagggttaat gtttcgagca
620 gacatgataa 1020
E--> 623 gatacattga tgagtttggaa caaaccacaa ctagaatgca gtaaaaaaaa
624 tgctttattt 1080
E--> 627 gtgaaatttg tgatgttattt gctttattttaa accattat aagctgcaat
628 aaacaagttg 1140
631 ac 1142
637 <210> SEQ ID NO: 9
640 <211> LENGTH: 1049
643 <212> TYPE: DNA
646 <213> ORGANISM: ARTIFICIAL SEQUENCE
652 <220> FEATURE:
655 <223> OTHER INFORMATION: DESCRIPTION OF ARTIFICIAL SEQUENCE: FUSION GENE
658 WITH HOMO SAPIEN SERINE PROTEASE CATALYTIC DOMAIN
664 <400> SEQUENCE: 9
E--> 667 gaattcacca ccatggacag caaagggtcg tcgcagaaat cccgcctgct

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/015,989

DATE: 01/03/2002
TIME: 15:41:56

Input Set : A:\ES.txt
Output Set: N:\CRF3\01032002\J015989.raw

668 cctgctgctg 60
E--> 671 gtgggtgtcaa atctactctt gtgccagggt gtgggtctccg actacaagga
672 cgacgacgac 120
E--> 675 gtggacgcgg ccgccttgc tgccccctt gatgatgatg acaagatcgt
676 tgggggctac 180
E--> 679 aactgtctag aacccattc gcagccttgg cagggccct tggccaggg
680 ccagcaacta 240
E--> 683 ctctgtggcg gtgtccttgt aggtggcaac tgggtcctta cagctgccc
684 ctgtaaaaaa 300
E--> 687 ccgaaaataca cagtacgcct gggagaccac agcctacaga ataaagatgg
688 cccagagcaa 360
E--> 691 gaaatacctg tggttcagtc catcccacac ccctgctaca acagcagcga
692 tgtggaggac 420
E--> 695 cacaaccatg atctgatgct tcttcaactg cgtgaccagg catccctggg
696 gtccaaagtg 480
E--> 699 aagcccatca gcctggcaga tcattgcacc cagcctggcc agaagtgcac
700 cgtctcaggc 540
E--> 703 tggggactg tcaccagtcc ccgagagaat tttctgaca ctctcaactg
704 tgcagaagta 600
E--> 707 aaaatcttc cccagaagaa gtgtgaggat gcttaccgg ggcagatcac
708 agatggcatg 660
E--> 711 gtctgtcag gcagcagcaa aggggctgac acgtgccagg gcgattctgg
712 agggcccttg 720
E--> 715 gtgtgtgatg gtgcactcca gggcatcaca tcctgggct cagaccctg
716 tgggaggtcc 780
E--> 719 gacaaaacctg gcgtctatac caacatctgc cgctacctgg actggatcaa
720 gaagatcata 840
E--> 723 ggcagcaagg gctctagaca tcaccatcac catcaactagc ggccgcttcc
724 ctttagtgag 900
E--> 727 ggttaatgct tcgagcagac atgataagat acattgatga gtttggacaa
728 accacaacta 960
E--> 731 gaatgcagtg aaaaaatgc tttatgtg aaattgtga tgctattgct
732 ttatgttaa 1020
735 ccattataag ctgcaataaa caagttgac 1049
741 <210> SEQ ID NO: 10
744 <211> LENGTH: 1052
747 <212> TYPE: DNA
750 <213> ORGANISM: ARTIFICIAL SEQUENCE
756 <220> FEATURE:
759 <223> OTHER INFORMATION: DESCRIPTION OF ARTIFICIAL SEQUENCE: FUSION GENE
762 WITH HOMO SAPIEN SERINE PROTEASE CATALYTIC DOMAIN
768 <400> SEQUENCE: 10
E--> 771 gaattcacca ccatggacag caaagggtcg tcgcagaaat cccgcctgct
772 cctgctgctg 60
E--> 775 gtgggtgtcaa atctactctt gtgccagggt gtgggtctccg actacaagga
776 cgacgacgac 120
E--> 779 gtggacgcgg ccgccttgc tgccccctt gatgatgatg acaagatcgt
780 tgggggctac 180
E--> 783 aactgtctag aaaagcactc ccagccctgg cagggccccc tggccaggg
Dane
Dane

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/015,989

DATE: 01/03/2002
TIME: 15:41:56

Input Set : A:\ES.txt
Output Set: N:\CRF3\01032002\J015989.raw

784 gacgcggcta 240
E--> 787 ctctgtgggg cgacgctcat cgcccccaga tggctcctga cagcagccca
788 ctgcctcaag 300
E--> 791 ccccgctaca tagttcacct ggggcagcac aacctccaga aggaggaggg
792 ctgtgagcac 360
E--> 795 acccgagacag ccactgagtc cttccccac cccggcttca acaacagcct
796 ccccaacaaa 420
E--> 799 gaccaccgca atgacatcat gctggtaag atggcatcgc cagtctccat
800 cacctggct 480
E--> 803 gtgcgacccc tcacccttc ctcacgctgt gtcactgctg gcaccagctg
804 cctcatttcc 540
E--> 807 ggctggggca gcacgtccag cccccagttt cgcctgcctc acaccttgcg
808 atgcgccaac 600
E--> 811 atcaccatca ttgagcacca gaagtgtgag aacgcctacc cggcaacat
812 cacagacacc 660
E--> 815 atggtgtgtg ccagcgtgca ggaagggggc aaggactcct gccagggtga
816 cttcgggggc 720
E--> 819 cctctggctc gtaaccagtc tcttcaaggc attatctcct gggccagga
820 tccgtgtcgc 780
E--> 823 atcacccgaa agcctgggtgt ctacacgaaa gtctgcaaatt atgtggactg
824 gatccaggag 840
E--> 827 acatgaaga acaattctag acatcaccat caccatcaact agcggccgct
828 tcccttttagt 900
E--> 831 gagggtaat gcttcgagca gacatgataa gatacattga tgagtttgg
832 caaaccacaa 960
E--> 835 ctagaatgca gtaaaaaaaaa tgctttattt gtgaaatttgg tgatgctatt
836 gctttatttgg 1020
839 taaccatiaat aagctgaat aaacaagttt ac

1052

1067 <210> SEQ ID NO: 12

1070 <211> LENGTH: 319

1073 <212> TYPE: PRT

1076 <213> ORGANISM: ARTIFICIAL SEQUENCE

1082 <220> FEATURE:

1085 <223> OTHER INFORMATION: DESCRIPTION OF ARTIFICIAL SEQUENCE: FUSION GENE
1088 WITH HOMO SAPIEN SERINE PROTEASE CATALYTIC DOMAIN

1094 <400> SEQUENCE: 12

1097 MET ALA PHE LEU TRP LEU LEU SER CYS TRP ALA LEU LEU GLY THR THR

1100 1 5 10 15

1106 PHE GLY CYS GLY VAL PRO ASP TYR LYS ASP ASP ASP ALA ALA ALA

1109 20 25 30

1115 LEU ALA ALA PRO PHE ASP ASP ASP LYS ILE VAL GLY GLY TYR ALA

1118 35 40 45

1124 LEU GLU ALA GLY GLN TRP PRO TRP GLN VAL SER ILE THR TYR GLU GLY

1127 50 55 60

1133 VAL HIS VAL CYS GLY GLY SER LEU VAL SER GLU GLN TRP VAL LEU SER

1136 65 70 75

1142 ALA ALA HIS CYS PHE PRO SER GLU HIS HIS LYS GLU ALA TYR GLU VAL

1145 85 90 95

1151 LYS LEU GLY ALA HIS GLN LEU ASP SER TYR SER GLU ASP ALA LYS VAL

*see
p. 8, too*

*Per Sequence
Rules (1.822)
only the first
letter of
amino acid is
in upper-case.
e.g. Met Ala*

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/015,989

DATE: 01/03/2002
TIME: 15:41:56

Input Set : A:\ES.txt
Output Set: N:\CRF3\01032002\J015989.raw

1154	100	105	110
1160	SER THR LEU LYS ASP ILE ILE PRO HIS PRO SER TYR LEU GLN GLU GLY		
1163	115	120	125
1169	SER GLN GLY ASP ILE ALA LEU LEU GLN LEU SER ARG PRO ILE THR PHE		
1172	130	135	140
1178	SER ARG TYR ILE ARG PRO ILE CYS LEU PRO ALA ALA ASN ALA SER PHE		
1181	145	150	155
1187	PRO ASN GLY LEU HIS CYS THR VAL THR GLY TRP GLY HIS VAL ALA PRO		
1190	165	170	175
1196	SER VAL SER LEU LEU THR PRO LYS PRO LEU GLN GLN LEU GLU VAL PRO		
1199	180	185	190
1205	LEU ILE SER ARG GLU THR CYS ASN CYS LEU TYR ASN ILE ASP ALA LYS		
1208	195	200	205
1214	PRO GLU GLU PRO HIS PHE VAL GLN GLU ASP MET VAL CYS ALA GLY TYR		
1217	210	215	220
1223	VAL GLU GLY GLY LYS ASP ALA CYS GLN GLY ASP SER GLY GLY PRO LEU		
1226	225	230	235
1232	SER CYS PRO VAL GLU GLY LEU TRP TYR LEU THR GLY ILE VAL SER TRP		
1235	245	250	255
1241	GLY ASP ALA CYS GLY ALA ARG ASN ARG PRO GLY VAL TYR THR LEU		<i>more up</i>
E--> 1242	ALA		
E--> 1245	260	265	270
E--> 1251	SER SER TYR ALA SER TRP ILE GLN SER LYS VAL THR GLU LEU GLN PRO		
E--> 1254	275	280	285
E--> 1260	ARG VAL VAL PRO GLN THR GLN GLU SER GLN PRO ASP SER ASN LEU CYS		
E--> 1263	290	295	300
E--> 1269	GLY SER HIS LEU ALA PHE SER SER ARG HIS HIS HIS HIS HIS HIS		
E--> 1272	305	310	315
2409	<210> SEQ ID NO: 35		
2412	<211> LENGTH: 55		
2415	<212> TYPE: DNA		
2418	<213> ORGANISM: ARTIFICIAL SEQUENCE		
2424	<220> FEATURE:		
2427	<223> OTHER INFORMATION: DESCRIPTION OF ARTIFICIAL SEQUENCE:		
2430	OLIGONUCLEOTIDE		
2436	<400> SEQUENCE: 35		
E--> 2439	aattcacaccatggctttc ctctggctcc tctcctgctg ggcccttcctg		<i>mod up - see item 1 on Error summary sheet</i>
2440	ggtag 55		
2446	<210> SEQ ID NO: 36		
2449	<211> LENGTH: 47		
2452	<212> TYPE: DNA		
2455	<213> ORGANISM: ARTIFICIAL SEQUENCE		
2461	<220> FEATURE:		
2464	<223> OTHER INFORMATION: DESCRIPTION OF ARTIFICIAL SEQUENCE:		
2467	OLIGONUCLEOTIDE		
2473	<400> SEQUENCE: 36		
E--> 2476	ccaggaggc ccagcaggag aggagccaga ggaaagccat ggtggtg		<i>same error</i>
2477	47		
2483	<210> SEQ ID NO: 37		

RAW SEQUENCE LISTING
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TIME: 15:41:56

Input Set : A:\ES.txt
Output Set: N:\CRF3\01032002\J015989.raw

2486 <211> LENGTH: 45
2489 <212> TYPE: DNA
2492 <213> ORGANISM: ARTIFICIAL SEQUENCE
2498 <220> FEATURE:
2501 <223> OTHER INFORMATION: DESCRIPTION OF ARTIFICIAL SEQUENCE:
2504 OLIGONUCLEOTIDE
2510 <400> SEQUENCE: 37
E--> 2513 caccttcggc tgcggggtcc ccgactacaa ggacgacgac gacgc *same*
2514 45
2520 <210> SEQ ID NO: 38
2523 <211> LENGTH: 53
2526 <212> TYPE: DNA
2529 <213> ORGANISM: ARTIFICIAL SEQUENCE
2535 <220> FEATURE:
2538 <223> OTHER INFORMATION: DESCRIPTION OF ARTIFICIAL SEQUENCE:
2541 OLIGONUCLEOTIDE
2547 <400> SEQUENCE: 38
E--> 2550 ggccgcgtcg tcgtcgctt ttagtcggg gaccccgag ccgaagggtgg *same*
2551 tac 53
2629 <210> SEQ ID NO: 41
2632 <211> LENGTH: 55
2635 <212> TYPE: DNA
2638 <213> ORGANISM: ARTIFICIAL SEQUENCE
2644 <220> FEATURE:
2647 <223> OTHER INFORMATION: DESCRIPTION OF ARTIFICIAL SEQUENCE:
2650 OLIGONUCLEOTIDE
2656 <400> SEQUENCE: 41
E--> 2659 ggccgcttt gctccccct ttgatgatga tgacaagatc gttggggct *same*
2660 atgct 55
2666 <210> SEQ ID NO: 42
2669 <211> LENGTH: 55
2672 <212> TYPE: DNA
2675 <213> ORGANISM: ARTIFICIAL SEQUENCE
2681 <220> FEATURE:
2684 <223> OTHER INFORMATION: DESCRIPTION OF ARTIFICIAL SEQUENCE:
2687 OLIGONUCLEOTIDE
2693 <400> SEQUENCE: 42
E--> 2696 ctagagcata gcccccaacg atttgtcat catcatcaaa gggggcagca *same*
2697 agagc 55
2703 <210> SEQ ID NO: 43
2706 <211> LENGTH: 55
2709 <212> TYPE: DNA
2712 <213> ORGANISM: ARTIFICIAL SEQUENCE
2718 <220> FEATURE:
2721 <223> OTHER INFORMATION: DESCRIPTION OF ARTIFICIAL SEQUENCE:
2724 OLIGONUCLEOTIDE
2730 <400> SEQUENCE: 43
E--> 2733 ggccgcttt gctccccct ttgatgatga tgacaagatc gttggggct *same*
2734 attgt 55

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/015,989

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TIME: 15:41:56

Input Set : A:\ES.txt
Output Set: N:\CRF3\01032002\J015989.raw

2740 <210> SEQ ID NO: 44
 2743 <211> LENGTH: 55
 2746 <212> TYPE: DNA
 2749 <213> ORGANISM: ARTIFICIAL SEQUENCE
 2755 <220> FEATURE:
 2758 <223> OTHER INFORMATION: DESCRIPTION OF ARTIFICIAL SEQUENCE:
 2761 OLIGONUCLEOTIDE
 2767 <400> SEQUENCE: 44
E--> 2770 ctagacaata gcccccaacg atcttgtcat catcatcaaa gggggcagca
 2771 agagc 55 *same*
 2777 <210> SEQ ID NO: 45
 2780 <211> LENGTH: 52
 2783 <212> TYPE: DNA
 2786 <213> ORGANISM: ARTIFICIAL SEQUENCE
 2792 <220> FEATURE:
 2795 <223> OTHER INFORMATION: DESCRIPTION OF ARTIFICIAL SEQUENCE:
 2798 OLIGONUCLEOTIDE
 2804 <400> SEQUENCE: 45
E--> 2807 ggccgcctt gctgccccct ttatcgaggg ggcattgtg gagggctcg
 2808 at 52 *same*
 2814 <210> SEQ ID NO: 46
 2817 <211> LENGTH: 52
 2820 <212> TYPE: DNA
 2823 <213> ORGANISM: ARTIFICIAL SEQUENCE
 2829 <220> FEATURE:
 2832 <223> OTHER INFORMATION: DESCRIPTION OF ARTIFICIAL SEQUENCE:
 2835 OLIGONUCLEOTIDE
 2841 <400> SEQUENCE: 46
E--> 2844 cttagatccga gcccctccaca atgcgcctt cgataaagg ggcagcaaga
 2845 gc 52 *same*
 3280 <210> SEQ ID NO: 54
 3283 <211> LENGTH: 284
 3286 <212> TYPE: PRT
 3289 <213> ORGANISM: ARTIFICIAL SEQUENCE
 3295 <220> FEATURE:
 3298 <223> OTHER INFORMATION: DESCRIPTION OF ARTIFICIAL SEQUENCE: HUMAN MH2
 3301 PROTEASE IN PFEK ZYMOGEN VECTOR
 3307 <400> SEQUENCE: 54
 3310 MET ASP SER LYS GLY SER SER GLN LYS SER ARG LEU LEU LEU LEU
 3313 1 5 10 15
 3319 VAL VAL SER ASN LEU LEU CYS GLN GLY VAL VAL SER ASP TYR LYS
 3322 20 25 30
 3328 ASP ASP ASP ASP VAL ASP ALA ALA ALA LEU ALA ALA PRO PHE ASP ASP
 3331 35 40 45
 3337 ASP ASP LYS ILE VAL GLY GLY TYR ASN CYS LEU GLU PRO HIS SER GLN
 3340 50 55 60
 3346 PRO TRP GLN ALA ALA LEU VAL MET GLU ASN GLU LEU PHE CYS SER GLY
 3349 65 70 75 80
 3355 VAL LEU VAL HIS PRO GLN TRP VAL LEU SER ALA ALA HIS CYS PHE GLN

*please
edit
anso and
letters*

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/015,989

DATE: 01/03/2002
TIME: 15:41:56

Input Set : A:\ES.txt
Output Set: N:\CRF3\01032002\J015989.raw

3358	85	90	95
3364	ASN SER TYR THR ILE GLY LEU GLY LEU HIS SER LEU GLU ALA ASP GLN		
3367	100	105	110
3373	GLU PRO GLY SER GLN MET VAL GLU ALA SER LEU SER VAL ARG HIS PRO		
3376	115	120	125
3382	GLU TYR ASN ARG PRO LEU LEU ALA ASN ASP LEU MET LEU ILE LYS LEU		
3385	130	135	140
3391	ASP GLU SER VAL SER GLU SER ASP THR ILE ARG SER ILE SER ILE ALA		
3394	145	150	155
3400	SER GLN CYS PRO THR ALA GLY ASN SER CYS LEU VAL SER GLY TRP GLY		
3403	165	170	175
3409	LEU LEU ALA ASN GLY ARG MET PRO THR VAL LEU GLN CYS VAL ASN		

E--> 3410 VAL

E--> 3413	180	185	190
3419	SER VAL VAL SER GLU GLU VAL CYS SER LYS LEU TYR ASP PRO LEU TYR		
E--> 3422	195	200	205
3428	HIS PRO SER MET PHE CYS ALA GLY GLY GLY HIS ASP GLN LYS ASP SER		
E--> 3431	210	215	220
3437	CYS ASN GLY ASP SER GLY GLY PRO LEU ILE CYS ASN GLY TYR LEU GLN		
E--> 3440	225	230	235
3446	GLY LEU VAL SER PHE GLY LYS ALA PRO CYS GLY GLN VAL GLY VAL PRO		
E--> 3449	245	250	255
3455	GLY VAL TYR THR ASN LEU CYS LYS PHE THR GLU TRP ILE GLU LYS THR		
E--> 3458	260	265	270
3464	VAL GLN ALA SER SER ARG HIS HIS HIS HIS HIS HIS		
E--> 3467	275	280	

3608 <210> SEQ ID NO: 59

3611 <211> LENGTH: 1103

3614 <212> TYPE: DNA

3617 <213> ORGANISM: ARTIFICIAL SEQUENCE

3623 <220> FEATURE:

3626 <223> OTHER INFORMATION: DESCRIPTION OF ARTIFICIAL SEQUENCE: NUCLEIC ACID
SEQUENCE OF HUMAN PROTEASE F IN CFEK2 ZYMOGEN

3632 VECTOR

3638 <400> SEQUENCE: 59

E--> 3641 gaattcacea ccatggctt cctctggctc ctctcctgct gggccctcct

3642 gggttaccacc 60-

E--> 3645 ttccggctcg cggtccccga ctacaaggac gacgacgacg cggccgcctct

3646 tgctgcccc 120

E--> 3649 tttgatgtat atgacaagat cgttggggc tatgctctag aactcggcg

3650 ttggccgtgg 180

E--> 3653 caggggagcc tgccctgtg ggattcccac gtatgcggag tgagcctgct

3654 cagccaccgc 240

E--> 3657 tgggcactca cggcgccgca ctgcttgaa acctatagtg accttagtga

3658 tccctccggg 300

E--> 3661 tggatgggcc agtttggcca gctgacttcc atgccatcct tctggagcct

3662 gcaggccctac 360

E--> 3665 tacaaccgtt acttcgtatc gaatatctat ctgagccctc gctacctggg

3666 gaattcacc 420

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/015,989

DATE: 01/03/2002
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Input Set : A:\ES.txt
Output Set: N:\CRF3\01032002\J015989.raw

E--> 3669 tatgacattg ccttggtgaa gctgtctgca cctgtcacct acactaaaca
3670 catccagccc 480
E--> 3673 atctgtctcc aggccctccac atttgaggttt gagaaccgga cagactgctg
3674 ggtgactgac 540
E--> 3677 tgggggtaca tcaaagagga tgaggcactg ccacatcccc acaccctcca
3678 ggaagttcag 600
E--> 3681 gtcgcacatca taaacaactc tatgtgcaac cacctttcc tcaagtacag
3682 ttcccgcaag 660
E--> 3685 gacatcttg gagacatggg ttgtgctggc aatgcccaag gcgggaagga
3686 tgcctgctc 720
E--> 3689 ggtgacttag gtggaccctt ggccctgttaac aagaatggac tgtggtatca
3690 gattggatc 780
E--> 3693 gtgagctggg gagtgggctg tggtcggccc aatcgccccg gtgtctacac
3694 caatatcagc 840
E--> 3697 caccactttg agtggatcca gaagctgatg gccagagtg gcatgtccca
3698 gccagacccc 900
E--> 3701 tcctggtcta gacatcacca tcaccatcac tagcggccgc ttcccttttag
3702 tgagggttaa 960
E--> 3705 tgcttcgagc agacatgata agatacattt atgagtttgg acaaaccaca
3706 actagaatgc 1020
E--> 3709 agtaaaaaaaaa atgctttattt tgtgaaattt gtgatgctat tgctttattt
3710 gtaaccatca 1080
3713 taagctgcaa taaacaagtt gac

1103

*Danne
Green*

→ Review the Sequence Listing to insure a corresponding explanation is presented in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/015,989

DATE: 01/03/2002

TIME: 15:41:57

Input Set.: A:\ES.txt

Output Set: N:\CRF3\01032002\J015989.raw

L:31 M:270 C: Current Application Number differs, Replaced Application Number
L:34 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:82 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:50 SEQ:1
L:82 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=1
M:254 Repeated in SeqNo=1
L:142 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:50 SEQ:2
M:112 Repeated in SeqNo=2
M:254 Repeated in SeqNo=2
L:198 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:50 SEQ:3
M:112 Repeated in SeqNo=3
M:254 Repeated in SeqNo=3
L:266 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:50 SEQ:4
M:112 Repeated in SeqNo=4
M:254 Repeated in SeqNo=4
L:326 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:50 SEQ:5
M:112 Repeated in SeqNo=5
M:254 Repeated in SeqNo=5
L:383 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:50 SEQ:6
M:112 Repeated in SeqNo=6
M:254 Repeated in SeqNo=6
L:443 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:50 SEQ:7
M:112 Repeated in SeqNo=7
M:254 Repeated in SeqNo=7
L:555 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:50 SEQ:8
M:112 Repeated in SeqNo=8
M:254 Repeated in SeqNo=8
L:667 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:50 SEQ:9
M:112 Repeated in SeqNo=9
M:254 Repeated in SeqNo=9
L:771 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:50 SEQ:10
M:112 Repeated in SeqNo=10
M:254 Repeated in SeqNo=10
L:1242 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:12
M:332 Repeated in SeqNo=12
L:1719 M:112 C: (48) String data converted to lower case,
L:1755 M:112 C: (48) String data converted to lower case,
L:1791 M:112 C: (48) String data converted to lower case,
L:1827 M:112 C: (48) String data converted to lower case,
L:1863 M:112 C: (48) String data converted to lower case,
L:1899 M:112 C: (48) String data converted to lower case,
L:1935 M:112 C: (48) String data converted to lower case,
L:1971 M:112 C: (48) String data converted to lower case,
L:2007 M:112 C: (48) String data converted to lower case,
L:2043 M:112 C: (48) String data converted to lower case,
L:2079 M:112 C: (48) String data converted to lower case,
L:2115 M:112 C: (48) String data converted to lower case,
L:2151 M:112 C: (48) String data converted to lower case,

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/015,989

DATE: 01/03/2002

TIME: 15:41:57

Input Set : A:\ES.txt

Output Set: N:\CRF3\01032002\J015989.raw

L:2187 M:112 C: (48) String data converted to lower case,
L:2223 M:112 C: (48) String data converted to lower case,
L:2259 M:112 C: (48) String data converted to lower case,
L:2295 M:112 C: (48) String data converted to lower case,
L:2331 M:112 C: (48) String data converted to lower case,
L:2367 M:112 C: (48) String data converted to lower case,
L:2403 M:112 C: (48) String data converted to lower case,
L:2439 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:50 SEQ:35
M:112 Repeated in SeqNo=35
L:2476 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:47 SEQ:36
M:112 Repeated in SeqNo=36
L:2513 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:45 SEQ:37
M:112 Repeated in SeqNo=37
L:2550 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:50 SEQ:38
M:112 Repeated in SeqNo=38
L:2587 M:112 C: (48) String data converted to lower case,
L:2623 M:112 C: (48) String data converted to lower case,
L:2659 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:50 SEQ:41
M:112 Repeated in SeqNo=41
L:2696 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:50 SEQ:42
M:112 Repeated in SeqNo=42
L:2733 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:50 SEQ:43
M:112 Repeated in SeqNo=43
L:2770 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:50 SEQ:44
M:112 Repeated in SeqNo=44
L:2807 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:50 SEQ:45
M:112 Repeated in SeqNo=45
L:2844 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:50 SEQ:46
M:112 Repeated in SeqNo=46
L:2881 M:112 C: (48) String data converted to lower case,
L:2917 M:112 C: (48) String data converted to lower case,
L:2953 M:112 C: (48) String data converted to lower case,
L:2989 M:112 C: (48) String data converted to lower case,
L:3025 M:112 C: (48) String data converted to lower case,
L:3061 M:112 C: (48) String data converted to lower case,
L:3410 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:54
M:332 Repeated in SeqNo=54
L:3503 M:112 C: (48) String data converted to lower case,
L:3641 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:50 SEQ:59
M:254 Repeated in SeqNo=59
L:3752 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:50 SEQ:60
M:254 Repeated in SeqNo=60